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Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application.

Listing of Claims:

1-42 (Canceled)

43. (Presently Amended) <u>A method of treating emphysema secondary to or resulting in oxidative stress to a patient, comprising:</u>

identifying a patient suffering from emphysema secondary to or resulting in oxidative stress; and

administering to the patient a therapeutically effective amount of a composition comprising carbon monoxide The method of claim 42, wherein the disorder is emphysema.

44. (Presently Amended) A method of treating bronchitis secondary to or resulting in oxidative stress to a patient, comprising:

identifying a patient suffering from bronchitis secondary to or resulting in oxidative stress; and

administering to the patient a therapeutically effective amount of a composition comprising carbon monoxide The method of claim 42, wherein the disorder is bronchitis.

45. (Presently Amended) A method of treating cystic fibrosis secondary to or resulting in oxidative stress to a patient, comprising:

identifying a patient suffering from cystic fibrosis secondary to or resulting in oxidative stress; and

administering to the patient a therapeutically effective amount of a composition comprising carbon monoxide The method of claim 42, wherein the disorder is cystic fibrosis.

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46. (Presently Amended) A method of treating pneumonia secondary to or resulting in oxidative stress to a patient, comprising:

identifying a patient suffering from pneumonia secondary to or resulting in oxidative stress; and

administering to the patient a therapeutically effective amount of a composition comprising carbon monoxide The method of claim 42, wherein the disorder is pneumonia.

47. (Presently Amended) <u>A method of treating interstitial lung disease secondary to or resulting in oxidative stress to a patient, comprising:</u>

identifying a patient suffering from interstitial lung disease secondary to or resulting in oxidative stress; and

administering to the patient a therapeutically effective amount of a composition comprising carbon monoxide The method of claim 42, wherein the disorder is interstitial lung disease.

48-49 (Canceled)

50. (Presently Amended) <u>A method of treating adult respiratory distress syndrome</u> secondary to or resulting in oxidative stress to a patient, comprising:

identifying a patient suffering from adult respiratory distress syndrome secondary to or resulting in oxidative stress; and

administering to the patient a therapeutically effective amount of a composition comprising carbon monoxide The method of claim 42, wherein the disorder is adult respiratory distress syndrome.

51-52 (Canceled)

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53. (Presently Amended) The method of claim 43 42, wherein the composition is administered as an inhaled gas.

- 54. (Previously presented) The method of claim 53, wherein the gas is administered as a mixture comprising carbon monoxide, nitrogen and oxygen.
- 55. (Previously presented) The method of claim 54, wherein the concentration of carbon monoxide in the mixture is monitored with a carbon monoxide analyzer.
 - 56. (Presently Amended) The method of claim 43 42, wherein the patient is a human.
- 57. (Previously presented) A method of treating asthma in a human patient, comprising: identifying a human patient suffering from asthma; and administering to the patient a therapeutically effective amount of a composition comprising carbon monoxide.
- 58. (Previously presented) A method of treating asthma in a patient, comprising: identifying a patient suffering from asthma; and administering to the patient a therapeutically effective amount of a composition comprising carbon monoxide, wherein the composition contains 0.005% to 0.05% carbon monoxide.
 - 59. (Previously presented) The method of claim 58, wherein the patient is a human.
 - 60. (Previously presented) A method of treating cancer in a patient, comprising: identifying a patient suffering from cancer; and administering to the patient a therapeutically effective amount of a composition

comprising carbon monoxide, wherein the cancer is selected from a group consisting of: cancer

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of the stomach, colon, rectum, liver, pancreas, kidney, cervix uteri, corpus uteri, ovary, prostate, testis, bladder, brain/central nervous system, head, neck, mouth, esophagus, larynx and pharynx; Hodgkins disease; non-Hodgkins leukemia; sarcoma; choriocarcinoma; and lymphoma.

61. (Previously presented) A method of treating cancer in a human patient, comprising: identifying a human patient suffering from cancer; and administering to the patient a therapeutically effective amount of a composition comprising carbon monoxide, to thereby treat cancer in the patient.

62. (Previously presented) A method of treating inflammation in a patient, comprising: identifying a patient suffering from inflammation of at least one organ selected from a group consisting of: kidney, heart, liver, and lung; and

administering to the patient a therapeutically effective amount of a composition comprising carbon monoxide, wherein the inflammation is of a type selected from a group consisting of: acute, allergic, alterative, atrophic, catarrhal, croupous, fibrinopurulent, fibrinous, immune, hyperplastic, proliferative, subacute, serous and serofibrinous inflammation.

63. (Previously presented) A method of treating inflammation in a human patient, comprising:

identifying a human patient suffering from inflammation of at least one organ selected from a group consisting of: kidney, heart, liver, and lung; and

administering to the patient a therapeutically effective amount of a composition comprising carbon monoxide, to thereby treat inflammation in the patient.

64. (Previously presented) A method of treating inflammation in a patient, comprising: identifying a patient suffering from or at risk of inflammation of at least one organ selected from the group consisting of: kidney, spleen and skin; and

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administering to the patient a therapeutically effective amount of a composition comprising carbon monoxide, to thereby treat inflammation in the patient.

65. (Previously presented) A method of reducing inflammation secondary to sepsis in a patient, comprising:

identifying a patient suffering from or at risk of sepsis; and administering to the patient a therapeutically effective amount of a composition comprising carbon monoxide, to thereby reduce inflammation secondary to sepsis.

66. (Previously presented) A method for reducing inflammation associated with a wound, the method comprising:

identifying a patient suffering from a wound; and

administering to the patient a therapeutically effective amount of a composition comprising carbon monoxide, wherein the amount is sufficient to reduce inflammation associated with the wound.

- 67. (Previously presented) A method of treating sepsis in a patient, comprising: identifying a patient suffering from or at risk of sepsis; and administering to the patient a therapeutically effective amount of a composition comprising carbon monoxide, to thereby treat sepsis in the patient.
- 68. (Previously presented) A method of treating inflammation associated with arthritis in a patient, comprising:

identifying a patient suffering from or at risk for arthritis; and administering to the patient a therapeutically effective amount of a composition comprising carbon monoxide, to thereby treat inflammation associated with arthritis in the patient.

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69. (Previously presented) A method of treating a patient to reduce oxidative stress associated with hyperoxia, comprising:

identifying a human patient suffering from or at risk for oxidative stress associated with hyperoxia; and

administering to the patient a therapeutically effective amount of a composition comprising carbon monoxide, to thereby reduce oxidative stress associated with hyperoxia.

- 70. (Previously presented) The method of claim 69, wherein the composition comprises carbon monoxide at a concentration of at least 50 ppm.
- 71. (Previously presented) The method of claim 69, wherein the composition comprises carbon monoxide at a concentration of at least 100 ppm.
- 72. (Previously presented) The method of claim 69, wherein the composition comprises carbon monoxide at a concentration of at least 250 ppm.
- 73. (Presently amended) The method of claim 69, wherein the composition contains carbon monoxide at a concentration of about 50 ppm to about 500 ppm.
- 74. (Presently amended) A method of treating a patient to reduce hyperoxic lung injury, comprising:

identifying a human patient suffering from or at risk for hyperoxic lung injury; and administering to the patient a therapeutically effective amount of a composition comprising carbon monoxide, to thereby reduce hyperoxic lung injury.

75. (Previously presented) The method of claim 74, wherein the composition comprises carbon monoxide at a concentration of at least 50 ppm.

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76. (Previously presented) The method of claim 74, wherein the composition comprises

carbon monoxide at a concentration of at least 100 ppm.

77. (Previously presented) The method of claim 74, wherein the composition comprises

carbon monoxide at a concentration of at least 250 ppm.

78. (Previously presented) The method of claim 74, wherein the composition contains

carbon monoxide at a concentration of about 50 ppm to about 500 ppm.

79. (Withdrawn) A gaseous mixture comprising (a) at least 98% oxygen gas and (b) an

amount of carbon monoxide gas effective to reduce in a patient hyperoxic lung injury caused by

inhaling a gaseous composition at least 98% of which is oxygen.

80. (Withdrawn) The mixture of claim 79, wherein the mixture comprises carbon

monoxide gas at a concentration of at least 50 ppm.

81. (Withdrawn) The mixture of claim 79, wherein the mixture comprises carbon

monoxide gas at a concentration of at least 100 ppm.

82. (Withdrawn) The mixture of claim 79, wherein the mixture comprises carbon

monoxide gas at a concentration of at least 250 ppm.

83. (Withdrawn) The mixture of claim 79, wherein the mixture contains carbon monoxide

gas at a concentration of about 50 ppm to about 500 ppm.

84. (Withdrawn) A method of treating a patient in need of a high concentration of

oxygen, comprising:

identifying a patient in need of a high concentration of oxygen; and

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administering to the patient the gaseous mixture of claim 79.

85. (Withdrawn) The method of claim 84, wherein the mixture comprises carbon monoxide gas at a concentration of at least 50 ppm.

- 86. (Withdrawn) The method of claim 84, wherein the mixture comprises carbon monoxide gas at a concentration of at least 100 ppm.
- 87. (Withdrawn) The method of claim 84, wherein the mixture comprises carbon monoxide gas at a concentration of at least 250 ppm.
- 88. (Withdrawn) The method of claim 84, wherein the mixture contains carbon monoxide gas at a concentration of about 50 ppm to about 500 ppm.
- 89. (Previously presented) A method of treating inflammation associated with Alzheimer's disease or Parkinson's disease, comprising:

identifying a patient suffering from or at risk for Alzheimer's disease or Parkinson's disease; and

administering to the patient a therapeutically effective amount of a composition comprising carbon monoxide, to thereby treat inflammation associated with Alzheimer's disease or Parkinson's disease.

- 90. (Previously presented) A method of treating cancer in a patient, comprising: identifying a patient suffering from skin or lung cancer; and administering to the patient a therapeutically effective amount of a composition comprising carbon monoxide at a concentration of about 25 to about 750 ppm.
- 91. (Previously presented) The method of claim 60, wherein the composition contains carbon monoxide at a concentration of about 50 to about 500 ppm.

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92. (Previously presented) The method of claim 60, wherein the composition contains carbon monoxide at a concentration of about 25 to about 750 ppm.

- 93. (Previously presented) The method of claim 61, wherein the composition contains carbon monoxide at a concentration of about 50 to about 500 ppm.
- 94. (Previously presented) The method of claim 61, wherein the composition contains carbon monoxide at a concentration of about 25 to about 750 ppm.
- 95. (Previously presented) The method of claim 61, wherein the cancer is cancer of the skin or lung.
- 96. (Previously presented) A method of treating inflammation in a patient, comprising: identifying a patient suffering from inflammation of at least one organ selected from the group consisting of brain, spleen, and skin; and

administering to the patient a therapeutically effective amount of a composition comprising carbon monoxide, wherein the inflammation is of a type selected from the group consisting of acute, allergic, alterative, atrophic, catarrhal, croupous, fibrinopurulent, fibrinous, immune, hyperplastic, proliferative, subacute, serous and serofibrinous inflammation.

97. (Previously presented) A method of treating inflammation in a human patient, comprising:

identifying a patient suffering from inflammation of at least one organ selected from the group consisting of brain, spleen, and skin; and

administering to the patient a therapeutically effective amount of a composition comprising carbon monoxide, to thereby treat inflammation in the human patient.

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98. (Previously presented) The method of claim 57, wherein the composition is administered as an inhaled gas.

- 99. (Previously presented) The method of claim 58, wherein the composition is administered as an inhaled gas.
- 100. (Previously presented) The method of claim 60, wherein the composition is administered as an inhaled gas.
- 101. (Previously presented) The method of claim 61, wherein the composition is administered as an inhaled gas.
- 102. (Previously presented) The method of claim 63, wherein the composition is administered as an inhaled gas.
- 103. (Previously presented) The method of claim 64, wherein the composition is administered as an inhaled gas.
- 104. (Previously presented) The method of claim 65, wherein the composition is administered as an inhaled gas.
 - 105. (Previously presented) The method of claim 65, wherein the patient is a human.
- 106. (Previously presented) The method of claim 66, wherein the composition is administered as an inhaled gas.
 - 107. (Previously presented) The method of claim 66, wherein the patient is a human.

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108. (Previously presented) The method of claim 67, wherein the composition is administered as an inhaled gas.

- 109. (Previously presented) The method of claim 67, wherein the patient is a human.
- 110. (Previously presented) The method of claim 68, wherein the composition is administered as an inhaled gas.
 - 111. (Previously presented) The method of claim 68, wherein the patient is a human.
- 112. (Previously presented) The method of claim 69, wherein the composition is administered as an inhaled gas.
- 113. (Previously presented) The method of claim 74, wherein the composition is administered as an inhaled gas.
- 114. (Previously presented) The method of claim 89, wherein the composition is administered as an inhaled gas.
 - 115. (Previously presented) The method of claim 89, wherein the patient is a human.
- 116. (Previously presented) The method of claim 90, wherein the composition is administered as an inhaled gas.
 - 117. (Previously presented) The method of claim 90, wherein the patient is a human.
- 118. (Previously presented) The method of claim 96, wherein the composition is administered as an inhaled gas.

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119. (Previously presented) The method of claim 96, wherein the patient is a human.

- 120. (Previously presented) The method of claim 97, wherein the composition is administered as an inhaled gas.
- 121. (New) The method of claim 44, wherein the composition is administered as an inhaled gas.
- 122. (New) The method of claim 121, wherein the gas is administered as a mixture comprising carbon monoxide, nitrogen and oxygen.
- 123. (New) The method of claim 122, wherein the concentration of carbon monoxide in the mixture is monitored with a carbon monoxide analyzer.
 - 124. (New) The method of claim 44, wherein the patient is a human.
- 125. (New) The method of claim 45, wherein the composition is administered as an inhaled gas.
- 126. (New) The method of claim 125, wherein the gas is administered as a mixture comprising carbon monoxide, nitrogen and oxygen.
- 127. (New) The method of claim 126, wherein the concentration of carbon monoxide in the mixture is monitored with a carbon monoxide analyzer.
 - 128. (New) The method of claim 45, wherein the patient is a human.

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129. (New) The method of claim 46, wherein the composition is administered as an inhaled gas.

- 130. (New) The method of claim 129, wherein the gas is administered as a mixture comprising carbon monoxide, nitrogen and oxygen.
- 131. (New) The method of claim 130, wherein the concentration of carbon monoxide in the mixture is monitored with a carbon monoxide analyzer.
 - 132. (New) The method of claim 46, wherein the patient is a human.
- 133. (New) The method of claim 47, wherein the composition is administered as an inhaled gas.
- 134. (New) The method of claim 133, wherein the gas is administered as a mixture comprising carbon monoxide, nitrogen and oxygen.
- 135. (New) The method of claim 134, wherein the concentration of carbon monoxide in the mixture is monitored with a carbon monoxide analyzer.
 - 136. (New) The method of claim 47, wherein the patient is a human.
- 137. (New) The method of claim 50, wherein the composition is administered as an inhaled gas.
- 138. (New) The method of claim 137, wherein the gas is administered as a mixture comprising carbon monoxide, nitrogen and oxygen.

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139. (New) The method of claim 138, wherein the concentration of carbon monoxide in the mixture is monitored with a carbon monoxide analyzer.

140. (New) The method of claim 50, wherein the patient is a human.

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Amendments to the Drawings:

Please replace original Figures 2, 9 and 11 with the attached replacement sheets of drawings. New Figures 2A-2F, 9A-9C, and 11A-11C are high quality reproductions of the tissue section and gel photographs shown in original Figures 2, 9 and 11.

Attachments following last page of this Amendment:

Replacement Sheets (3 pages).